

1            **CLAIMS**

2            We claim:

3            1. A program product encoding a computer program for executing a

4            process on an information processor, the process comprising:

5                    receiving a request for a resource, the request including a module  
6                    identifier identifying a resource module;

7                    in response to receiving the request, obtaining a language identifier  
8                    from a source other than the request;

9                    selecting a localized resource from the resource module based on  
10                    language identifier.

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13            2. A program product as recited in claim 1, wherein the process further  
14                    comprises constructing a path name having the module identification and  
15                    the language identifier.

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18            3. A program product as recited in claim 1, wherein the process further  
19                    comprises locating a resource module in a subdirectory of a path of the  
20                    requested resource.

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22            4. A program product as recited in claim 1, wherein the process further  
23                    comprises using a surrogate to identify a subdirectory containing the  
24                    localized resource.

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2       5. A program product as recited in claim 1, wherein the process further  
3       comprises using a surrogate to identify a subdirectory containing the  
4       localized resource, wherein the surrogate is locality preference information.  
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6       6. A program product as recited in claim 1, wherein the process further  
7       comprises:

8               8       storing a handle to the resource module in a table of alternative  
9       resource handles;

10               11       receiving a subsequent request for the localized resource;

12               13       using the handle to the resource module in the table of alternative  
13       resource handles to satisfy the subsequent request for the localized  
14       resource.

1        7. A method of providing resources, comprising:  
2                    receiving a request for a localized resource, wherein the request  
3                    includes a module identification;  
4                    in response to receiving the request, (a) selecting a resource module  
5                    based on the module identification and on a language identifier that is  
6                    obtained independently of the request and (b) providing the requested  
7                    localized resource from the selected resource module.  
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10        8. A method as recited in claim 7, wherein the selecting step comprises  
11                    selecting a resource module in accordance with the following languages, in  
12                    descending order of priority:

13                    the language indicated by the language identifier;  
14                    the primary language of the language indicated by the language  
15                    identifier;  
16                    a system default language;  
17                    the primary language of the system default language;  
18                    English.  
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21        9. A method as recited in claim 7 wherein the selecting step comprises  
22                    constructing a filename having the language identifier.  
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10. A method as recited in claim 7 wherein the selecting step comprises constructing a path name having the module identification and the language identifier.

11. A method as recited in claim 7 wherein the selecting step comprises locating a resource module in a subdirectory of a path of the requested resource.

12. A method as recited in claim 7 wherein the selecting step comprises using a surrogate to identify a subdirectory containing the localized resource.

13. A method as recited in claim 7 wherein the selecting step comprises using a surrogate to identify a subdirectory containing the localized resource, wherein the surrogate is locality preference information.

14. A method as recited in claim 7 wherein the selecting step comprises selecting an alternate resource module, the alternate resource module residing in a subdirectory of a directory in which the localized resource resides.

15. A method as recited in claim 7 wherein the selecting step comprises:

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2       determining whether a module path having a path name comprising  
3       the module identification includes a subdirectory having an identifier that is  
4       equivalent to a current user language identifier;

5       if the module path having a path name comprising the module  
6       identification does include a subdirectory having a name that is equivalent  
7       to a current user language identifier, selecting a resource module from the  
8       subdirectory having an identifier that is equivalent to a current user  
9       language identifier.

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12. A method as recited in claim 15 further comprising:

13. if the module path having a path name comprising the module

14. identification does not include a subdirectory having a name that is

15. equivalent to a current user language identifier, determining whether the

16. module path having a path name comprising the module identification

17. includes a subdirectory having an identifier equivalent to a primary

18. language identifier corresponding to the current user language identifier.

21 17. A method as recited in claim 16 further comprising:  
22       if the module path having a path name comprising the module  
23       identification includes a subdirectory having an identifier equivalent to a  
24       primary language identifier corresponding to the current user language  
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1           identifier, selecting a resource module from the subdirectory having an  
2           identifier equivalent to the primary language identifier corresponding to the  
3           current user language identifier.

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5       18. A method as recited in claim 17, further comprising:  
6               if the module path having a path name comprising the module  
7               identification does not include a subdirectory having an identifier  
8               equivalent to a primary language identifier corresponding to the current  
9               user language identifier, using a surrogate to identify a preferred language  
10              identifier;

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12               selecting a resource module corresponding to the preferred language  
13              identifier.

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15       19. A method as recited in claim 7 wherein the selecting step comprises  
16               selecting a language-neutral resource module.

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19       20. A method as recited in claim 7 further comprising:  
20               storing a handle to the resource module in a table of alternative  
21              resource handles;  
22               receiving a subsequent request for the localized resource;

1 using the handle to the resource module in the table of alternative  
2 resource handles to satisfy the subsequent request for the localized  
3 resource.

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1           21. A system comprising:

2                   a resource module including a plurality of resources, each resource

3                   corresponding to a natural language;

4                   a resource finder receiving a request for one of the plurality of

5                   resources and responsively selecting one of the plurality of resources based

6                   on a language identifier obtained independently of the request.

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9           22. A system as recited in claim 21 further comprising an alternate

10                  module path module determining a path to one of the plurality of resources

11                  based on the language identifier.

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13           23. A system as recited in claim 21 further comprising an alternate

14                  module path module constructing a path name including a name of the

15                  resource module and the language identifier.

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18           24. A system as recited in claim 21 further comprising an alternate

19                  resource module table operable to store one or more handles, each handle

20                  referring to one of the plurality of resources.

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23           25. A system as recited in claim 21 further comprising:

24                   a memory in operable communication with the process;

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a resource loader receiving a handle referring to the selected one of the plurality of resources and loading the selected one of the plurality of resources into the memory.

26. A system as recited in claim 21 wherein the language identifier is equivalent to a current user language identifier.

27. A system as recited in claim 21 wherein the language identifier is equivalent to a primary language identifier corresponding to a current user identifier.

28. A system as recited in claim 21 wherein the language identifier is equivalent to a language identifier determined based on a surrogate, the surrogate being preference information related to locality of a user.